ABSTRACT

CONFIGURATION OF THE PLANT MAINTENANCE MODULE FOR PREVENTIVE MAINTENANCE USING SAP S/4HANA IN THE MINING INDUSTRY (CASE STUDY OF PT XYZ)

PT XYZ is a company engaged in gold mining. In the current condition, companies use applications that they developed themselves to carry out transactions and Microsoft Excel to store data. By implementing the concept of Enterprise Resource Planning (ERP), companies can integrate processes between departments related to preventive maintenance activities. ERP-based software called SAP S/4HANA with one of its modules Plant Maintenance (PM) can plan repairs for the equipment they use to operate. Implementation at this company will use the Accelerated SAP (ASAP) methodology with testing using the System Integration Test (SIT) and User Acceptance Test (UAT). The result of this research is that the company is able to prevent damage to equipment so that operational activities are not disrupted, the master data needed to operate is more complete, and the scheduling of maintenance activities will be more detailed so that the planner's decision making will be more accurate. This research only discusses up to the Realization stage.

*Keywords — **ERP, SAP S/4HANA, MAINTENANCE, PLANT MAINTENANCE, PREVENTIVE MAINTENANCE.***